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PTO/SB/21 (09-04)

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## TRANSMITTAL FORM

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		Application Number	10/696,717
		Filing Date	October 29, 2003
		First Named Inventor	Wylie Vale
		Art Unit	N/A
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission		Attorney Docket Number	AO-CLFR:194USD1

### ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
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### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	FULBRIGHT & JAWORSKI L.L.P.		
Signature			
Printed name	Melissa W. Acosta		
Date	May 27, 2005	Reg. No.	45,872

#### Transmittal

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV 671534225 US, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: May 27, 2005

Signature:

(Annette Devereux)



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Date: May 27, 2005      Signature: *Annette Devereux*  
(Annette Devereux)

Docket No.: AO-CLFR:194USD1  
(PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Wylie Vale et al.

Application No.: 10/696,717

Confirmation No.:

Filed: October 29, 2003

Art Unit: N/A

For: BETAGLYCAN AS AN INHIBIN  
RECEPTOR AND USES THEREOF

Examiner: Not Yet Assigned

### INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

A copy of each reference on the PTO/SB/08 is attached.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

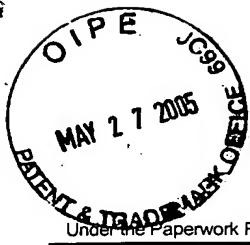
It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 06-2375, under Order No. AO-CLFR:194USD1. A duplicate copy of this paper is enclosed.

Dated: May 27, 2005

Respectfully submitted,

By   
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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
				Application Number	10/696,717
				Filing Date	October 29, 2003
				First Named Inventor	Wylie Vale
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	AO-CLFR:194USD1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AA	US-4,864,019	09/1989	Vale et al.		
AB	US-5,102,868	04/1992	Woodruff et al.		
AC	US-5,428,011	06/1995	Sheth et al.		
AD	US-5,786,179	07/1998	Kousoulas et al.		
AE	US-5,830,671	11/1998	Dennis et al.		
AF	US-6,060,460	05/2000	Ferguson		

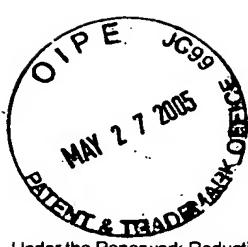
FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
BA	WO-9510610		04-20-1995	Jolla Cancer Res Foundation	T <sup>6</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
CA	Brown et al., Science, March 1999, Vol. 283, pgs 2080-2082.				
CB	Alberts et al, Molecular Biology if the Cell, 2nd Edition, 1989, pg 552.				
CC	Lewis, K. et al, "Betaglycan Binds Inhibin and Can Mediate Functional Antagonism of Activin Signalling," Nature Vol. 404, 2000, pgs 411-414.				
CD	Chong et al, "Immunocytochemical Localization of Latent Transforming Growth Factor- $\beta$ 1 Activation by Stimulated Macrophages," Journal of Cellular Physiology Vol. 178, 1999, pgs 275 - 283.				
CE	DePaolo et al, "Inhibins, Activins, and Follistatins: The Saga Continues," P.S.E.B.M. Vol. 214, 1997, pgs 328 - 339.				
CF	Chong et al, "Structure and Expression of a Membrane Component of the Inhibin Receptor System," Endocrinology Vol. 141, 2000, pgs 2600 - 2607.				
CG	Kaname et al, "Betaglycan has Multiple Binding Sites for transforming Growth Factor- $\beta$ 1," Biochemical Journal Vol. 315, 1996, pgs 815 - 820.				
CH	Draper et al, "Identification of an Inhibin Receptor in Gonadal Tumors from inhibit $\alpha$ -Subunit knockout Mice," The Journal of Biological Chemistry Vol. 273, 1998, pgs 398 - 403.				
CI	Massague, J., "TGF-Beta Signal Transduction," Annu Rev Biochem Vol. 67, 1998, pgs 753 - 791.				
CJ	Massague et al, "Cellular Receptors for Type Beta Transforming Growth Factor, J. Biol Chem Vol. 260, 1985, pgs 2636 - 2645.				
CK	Lopez-Casillas et al, "Structure and Expression of the Membrane Proteoglycan Betaglycan, a Component of teh TGF-beta Receptor System," Cell Vol. 67, 1991, pgs 785 - 795.				
CL	Wang et al, "Expression Cloning and Characterization of the TGF-beta Type III Receptor," Cell Vol. 67, pgs 797-805.				

Examiner Signature	Date Considered
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PTO/SB/08A (10-01)

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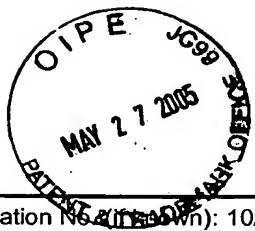
Substitute for form 1449A/PTO				<i>Complete if Known</i>	
				Application Number	10/696,717
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Sheet	2	of	2	Attorney Docket Number	AO-CLFR:194USD1

	CM	Derynck et al, "TGF-Beta Receptor Signaling," Biochim Biophys Acta Vol. 1333, pgs F105 - 50.	
	CN	Lopez-Casillas et al, "Betaglycan can Act as a Dual Modulator of TGF-Beta Access to Signaling Receptors: Mapping of Ligand Binding and GAG Attachment Sites," J Cell Biol Vol. 124, pgs. 557-568.	
	CO	Sun et al, "Expression of Transforming Growth Factor Beta Type III receptor Suppresses Tumorigenicity of Human Breast Cancer MDA-MB-231 Cells," J. Biol Chem Vol. 272, 1997, pgs 25367 - 25372.	
	CP	Chen et al, "Expression of Transforming Growth Factor Beta (TGFbeta) type III Receptor Restores Autocrine TGFbeta1 Activity in Human Breast Cancer MCF-7 Cells," J Biol Chem Vol. 272, 1997, pgs 12862 - 12867.	
	CQ	Brown et al, "Requirement of Type III TGF-Beta Receptor for Endocardial Cell Transformation in the Heart," Science Vol. 283, pgs 2080-2082.	
	CR	LeBrun et al, "Activin and Inhibin have Antagonistic Effects on Ligand-Dependant Heteromerization of the Type I and Type II Activin Receptors and Human Erythroid Differentiation," Molecular and Cellular Biology Vol. 17, no. 3, March 1997, pgs 1682 - 1691.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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Application No. (if known): 10/696,717

Attorney Docket No.: AO-CLFR:194USD1

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